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LExaminer: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

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This Raw Listing contains the General Information Section and up to the first 5 pages.

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SEQUENCE LISTING 1 2 TECH CENTER 1600/2900 (1) General Information 3 4 5 (i) APPLICANT: Bryan, Bruce 6 (ii) TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE 7 (iii) NUMBER OF SEQUENCES: 14 9 10 (iv) CORRESPONDENCE ADDRESS: 11 (A) ADDRESSEE: Heller Ehrman White & McAuliffe 12 (B) STREET: 4250 Executive Square, 7th Floor 13 (C) CITY: La Jolla 14 1700 MAIL ROOM 15 (D) STATE: CA 16 (E) COUNTRY: USA (F) ZIP: 92037 17 18 (v) COMPUTER READABLE FORM: 19 (A) MEDIUM TYPE: Diskette 20 (B) COMPUTER: IBM Compatible 21 (C) OPERATING SYSTEM: DOS 22 (D) SOFTWARE: FastSEQ Version 1.5 23 24 25 (vi) CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: 26 (B) FILING DATE: 27 (C) CLASSIFICATION: 28 29 (vii) PRIOR APPLICATION DATA: 30 (A) APPLICATION NUMBER: 09/444,762 31 (B) FILING DATE: 11-22-99 32 33 (C) CLASSIFICATION: 34 35 (vii) PRIOR APPLICATION DATA: 36 (A) APPLICATION NUMBER: 08/757,046 37 (B) FILING DATE: 11-25-96 38 (C) CLASSIFICATION: 39 (vii) PRIOR APPLICATION DATA: 40 (A) APPLICATION NUMBER: 08/597,274 41 (B) FILING DATE: 02-06-96 42 43 (viii) ATTORNEY/AGENT INFORMATION: 44 (A) NAME: Seidman, Stephanie L 45 (B) REGISTRATION NUMBER: 33,779

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| 134 | GAA | ATC | CCG | TTA | GTA | AAA | GGT | GGT | AAA | CCT | GAC | GTT | GTA | CAA | ATT | GTT | 720 |) |
| 135 | Glu | Ile | Pro | Leu | Val | Lys | Gly | Gly | Lys | Pro | Asp | Val | Val | Gln | Ile | Val | | |
| 136 | 225 | | | | | 230 | | | | | 235 | | | | | 240 | | |
| 137 | | | | | | | | | | | | | | | | | | |
| 138 | | | | | | TAT | | | | | | | | | | | 768 | 1 |
| 139 | Arg | Asn | Tyr | Asn | | Tyr | | | | | | _ | | | | Met | | |
| 140 | | | | | 245 | | | | | 250 | | | | | 255 | | | |
| 141 | | | ~- | | | ~~- | <u>ــــــــــــــــــــــــــــــــــــ</u> | | | | | | | | - | | | |
| 142 | | | | | | CCA | | | | | | | | | | | 816 | |
| 143 | Pne | тте | GIu | | Asp | Pro | Gly | Pne | | Ser | Asn | Ala | ·Ile | | Glu | GIY | | |
| 144 | | | | 260 | | | | • | 265 | | | | | 270 | | | | |
| 145 | 000 | 7 7 C | 774 | mmm | O CITT | 74 74 777 | 7 CIT | ~~~ | mmer. | ama | *** | CIETA | 70 70 70 | ~~~ | amm. | C 3 T | 0.64 | |
| 146 | | | | | | AAT | | | | | | | | | | | 864 | : |
| 147 148 | AIG | пλа | цуs 275 | rne | PLO | Asn | TILL | | File | val | гÀ2 | val | _ | GТĀ | ьeu | HIS | | |
| 148 | | | 4/3 | | | | | 280 | | | | | 285 | | | | | |
| 150 | ффф. | тсс | ראא | CAA | ርንጥ | GCA | CCT | ርአሞ | CAA | አጥሮ | CCA | 7, 7, 7, | ጥለጥ | איייט | א א א | TCC | 912 | 1 |
| 151 | | | | | | Ala | | | | | | | | | | | 312 | |
| 152 | | 290 | | Jiu | -100 | | 295 | p | JIU | | O T Y | 300 | - Y - | 110 | פעם | JUL | | |
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| 153 154 155 156 157 | | | | | GTT Val | | | | | | | TTA | CTTT(| GGT ' | ŤTTT | TATTTA | 965 |
| 158 159 160 161 162 | TTTC ATTI | CACA | GGG . | AACA' ATTA | TTCA' | TA T | ATGT CAAT | TGAT GAAA | r aa' C TT' | TTTA TATA | GCTC AACA | GAA GTG | CTTT. GTTC. | ACT AAT | CTGT TAAT | TGAATA CATATC TAATAT | 1025 1085 1145 1196 |
| 163 | | | (2 |) IN | FORM | ATIO | N FO | R SE | Q ID | NO: | 2: | | | | | | |
| 164 165 166 167 168 169 170 | | | (A) (B) (C) | LENG TYP: STR. | NCE (GTH: E: ni ANDE OLOG | 182: ucle: ONES: | 2 ba ic a S: s | se pa cid ingla | airs | | | | | | | | |
| 171 172 | | (: | ii) 1 | MOLE | CULE | TYP | E: c | DNA | | | | | | | | | |
| 173 174 | | (: | ix) | FEAT | URE: | | | | | | | | | | | | |
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| 179 180 | | (x) | PUB: | LICA' | rion | INF | ORMA' | TION | : | | | | | | | | |
| 181 | | | (H |) DO | CUME | NT N | JMBE | R:] | EP 0 | 387 | 355 | TOR | ΆΥ | | | | |
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| 185 186 187 | ATG Met 1 | | | | | | | | | | | | | | | GTC Val | 48 |
| 188 189 190 191 192 | AAC Asn | | | | | | | | | | | | | | | ACA Thr | 96 |
| 193 194 195 196 | | | | | ACA Thr | | | | | | | | | | | • | 144 |
| 197 198 199 200 | ACC Thr | | | | ACA Thr | | | | | | | | | | | | 192 |
| 201 202 203 204 | GAA Glu 65 | | | | | | | | | | | | | | | | 240 |
| 205 | GAA | TCC | AGA | GTA | GAA | GCT | GCT | GGA | TAT | TTT | AGA | ACG | TTT | TAC | GCC | AAA | 288 |

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INPUT SET: S36258.raw Glu Ser Arg Val Glu Ala Ala Gly Tyr Phe Arg Thr Phe Tyr Ala Lys AGA TTT AAT TTT CAG GAA CCT GGT AAA TAT GTG CTG GCT CGA GGA ACC Arg Phe Asn Phe Gln Glu Pro Gly Lys Tyr Val Leu Ala Arg Gly Thr 38RECEIVED AAG GGT GGC GAC TGG TCT GTA ACC CTC ACC ATG GAG AAT CTA GAT GGA Lys Gly Gly Asp Trp Ser Val Thr Leu Thr Met Glu Asn Leu Asp Gly JAN 112001 CAG AAG GGA GCT GTA CTG ACT AAG ACA ACA CTG GAG GTA GTA GGA GAC Gln Lys Gly Ala Val Leu Thr Lys Thr Thr Leu Glu Val Val Gly Asp TECH CENTER 1600/2900 GTA ATA GAC ATT ACT CAA GCT ACT GCA GAT CCT ATC ACA GTT AAC GGA Val Ile Asp Ile Thr Gln Ala Thr Ala Asp Pro Ile Thr Val Asn Gly GGA GCT GAC CCA GTT ATC GCT AAC CCG TTC ACA ATT GGT GAG GTG ACC Gly Ala Asp Pro Val Ile Ala Asn Pro Phe Thr Ile Gly Glu Val Thr ATT GCT GTT GTC GAA ATA CCC GGC TTC AAT ATT ACA GTC ATC GAA TTC Ile Ala Val Val Glu Ile Pro Gly Phe Asn Ile Thr Val Ile Glu Phe TTT AAA CTA ATC GTG ATA GAT ATT CTG GGA GGA AGA TCT GTG AGA ATT Phe Lys Leu Ile Val Ile Asp Ile Leu Gly Gly Arg Ser Val Arg Ile GCT CCA GAC ACA GCA AAC AAA GGA CTG ATA TCT GGT ATC TGT GGT AAT Ala Pro Asp Thr Ala Asn Lys Gly Leu Ile Ser Gly Ile Cys Gly Asn CTG GAG ATG AAT GAC GCT GAT GAC TTT ACT ACA GAC GCA GAT CAG CTG Leu Glu Met Asn Asp Ala Asp Phe Thr Thr Asp Ala Asp Gln Leu GCG ATC CAA CCC AAC ATA AAC AAA GAG TTC GAC GGC TGC CCA TTC TAC Ala Ile Gln Pro Asn Ile Asn Lys Glu Phe Asp Gly Cys Pro Phe Tyr GGG AAT CCT TCT GAT ATC GAA TAC TGC AAA GGT CTC ATG GAG CCA TAC Gly Asn Pro Ser Asp Ile Glu Tyr Cys Lys Gly Leu Met Glu Pro Tyr AGA GCT GTA TGT CGT AAC AAT ATC AAC TTC TAC TAT TAC ACT CTG TCC Arg Ala Val Cys Arg Asn Asn Ile Asn Phe Tyr Tyr Tyr Thr Leu Ser TGC GCC TTC GCT TAC TGT ATG GGA GGA GAA GAA AGA GCT AAA CAC GTC Cys Ala Phe Ala Tyr Cys Met Gly Glu Glu Arg Ala Lys His Val

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/729,133

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This Raw Listing contains the General Information Section and up to the first 5 pages.

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| 3 | (1) | Gener | al Information | | Social Me |
| 4 | | | | | |
| 5 | | (i) A | PPLICANT: Bryan, Br | uce | • |
| 6 7 | | (;;) | TITLE OF INVENTION. | BIOLUMINESCENT ARTICL | ES OF MANUFACTURE |
| 8 | | (11) | TITLE OF INVENTION. | BIODOMINESCENT ARTICL | ES OF MANOPACTORE |
| 9 | | (iii) | NUMBER OF SEQUENCE | S: 14 | |
| 10 - | | (, | nonzan or seguence | | |
| 11 | | (iv) | CORRESPONDENCE ADDR | ESS: | |
| 12 | | (A) | ADDRESSEE: Heller | Ehrman White & McAulif | fe |
| 13 | | | | tive Square, 7th Floor | |
| 14 | | | CITY: La Jolla | , | |
| 15 | | | STATE: CA | | |
| 16 | | (E) | COUNTRY: USA | | |
| 17 | | (F) | ZIP: 92037 | | |
| 18 | • | ` ' | | | |
| 19 | | (v) C | OMPUTER READABLE FO | RM: | |
| 20 | | (A) | MEDIUM TYPE: Diske | tte | |
| 21 | | (B) | COMPUTER: IBM Comp | atible · | |
| 22 | | (C) | OPERATING SYSTEM: | DOS | |
| 23 | | (D) | SOFTWARE: FastSEQ | Version 1.5 | |
| 24 | | | | | |
| 25 | | (vi) | CURRENT APPLICATION | DATA | |
| 26 | | | APPLICATION NUMBER | | ノ |
| 27 | | · (B) | FILING DATE: | deut | |
| 28 | | (C) | CLASSIFICATION: | | • |
| 29 | | | | | |
| 30 | | (vii) | PRIOR APPLICATION | DATA: | |
| 31 | | (A) | APPLICATION NUMBER | : 09/444,762 | |
| 32 | | (B) | FILING DATE: 11-22 | -99 | |
| 33 | | (C) | CLASSIFICATION: | | |
| 34 | | | | | |
| 35 | | (vii) | PRIOR APPLICATION 1 | DATA: | |
| 36 | | (A) | APPLICATION NUMBER | : 08/757,046 | |
| 37 | | (B) | FILING DATE: 11-25 | -96 | |
| 38 | | (C) | CLASSIFICATION: | , | |
| 39 | | | | | |
| 40 | | (vii) | PRIOR APPLICATION I | DATA: | ~ |
| 41 | | | APPLICATION NUMBER | • • | |
| 42 | | (B) | FILING DATE: 02-06 | -96 | |
| 43 | | | | | |
| 44 | | |) ATTORNEY/AGENT INI | | |
| 45 | | | NAME: Seidman, Step | | |
| 46 | | (B) | REGISTRATION NUMBER | R: 33,779 | |

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| 52 | | | (C) | TEL: | EX: | | | | | | | | | | | | CEIVED |
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| 55 | | | | | | | | | | | | | | | | | JAN 112001 |
| 56 | | (i | L) SI | EQUE | NCE (| CHAR | ACTE | RIST | ICS: | | | | | | | | JAN II COOL |
| 57 | | | (A) | LEN | GTH: | 119 | ba: | se pa | airs | | | | | | | | |
| 58 | | | (B) | TYP: | E: ni | ucle: | ic a | cid | | | | | | | | | TECH CENTER 1600/2900 |
| 59 | | | (C) | STR | ANDE | DNES | S: s: | ingl | е | | | | | | | | TECH CENTER TOOK |
| 60 | | | (D) | TOP | OLOG | Y: 1: | inea | r | | | | | | | | | |
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| 62 | | (i | .i) N | MOLE | CULE | TYPI | E: cl | DNA | | | | | | | | | |
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| 64 | | (v | 7i) (| ORIG | INAL | SOUI | RCE: | | | | | | | | | | |
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| 66 | | (i | .x) I | FEAT | URE: | | | | | | | | | | | | |
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| 68 | | | (A) | IAN (| ME/KI | EY: (| Codi | na Se | eaue | nce | | | | | | | |
| 69 | | | | | CATI | | | _ | - 1 | | | | | | | | |
| 70 | | | | | HER | | | | Ren | illa | Rei | nfor | mis I | Luci | fera | se . | |
| 71 | | | | | | | | | | | | | | | | | |
| 72 | i | (x) | PIIRI | TCA | rion | TNF | יבמאר | TON | • | | | | | | | | |
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| 74 | | 141 | PATT | ייינו <i>ו</i> גע אוייינוגב | MO": | 5 4 | 18 11 | 55 | | | | | | | | | |
| 75 | | (11) | LALL | 311 | . بيعد | J, T. | 10,1. | ,, | | | | | | | | | |
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| 7.8 | AGC T | מיחים | አአር | አጥር | አርጥ | ጥሮር | אאא | Cum | ייי אייי | ርአጥ | CCA | GNA | CAA | y G G | אאא | CGG | 48 |
| 79 | Ser I | | | | | | | | | | | | | | | | 40 |
| 80 | 1 | Jeu | пуэ | Mec | 5 | Ser | цуъ | vai | TYL | 10 | PIO | Giu | GIII | Arg | 15 | ALG | |
| 81 | 1 | | | | 5 | | | | | 10 | | | | | 13 | | |
| 82 | ATG A | א יווי א | 7 (70) | CCT | aaa | CAC | mcc. | TICC. | ccc | 707 | mcm | 7 7 7 | C 7 7 | 7 mc | 70 70 70 | Cmm | 96 |
| 83 | | | | | | | | | | | | | | | | | 96 |
| 84 | Met 1 | тте | 1111 | - | PIO | GIII | пр | пр | | Arg | Cys | цуѕ | GIII | | ASII | Val | |
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| 85 | omm o | יים אור | max. | mmm | 7 mm | 7 7 m | mam | m v m | CAM | max | C 2 2 | * * * | C A FFI | GG3 | C 2 2 | 7. 7. MT | 144 |
| 86 | CTT C | | | | | | | | | | | | | | | | 144 |
| 87 | Leu A | | | Pne | тте | ASII | Tyr | | Asp | ser | GIU | ьys | | Ата | GIU | ASII | |
| 88 | | | 35 | | | | | 40 | | | | | 45 | | | | |
| 89 | ~~~ | | | | | ~ | ~~- | | ~~~ | ~~~ | | | | | | ~~- | |
| 90 | GCT G | | | | | | | | | | | | | | | | 192 |
| 91 | Ala V | | Iте | Pne | Leu | His | | Asn | Ala | Ala | Ser | | Tyr | Leu | Trp | Arg | |
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| 94 | CAT C | | | | | | | | | | | | | | | | 240 |
| 95 | His V | /al | va⊥ | Pro | His | | Glu | Pro | Val | Ala | _ | Cys | Ile | Ile | Pro | _ | |
| 96 | 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| 97 | | | | | | | | | | | | | | | | | |
| 98 | CTT A | | | | | | | | | | | | | | | | 288 |
| 99 | Leu I | те | GTA | Met | GTA | ьуs | ser | GIY | ьys | ser | GLY | Asn | GIY | ser | Tyr | Arg | |

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| 101 | | | | | | | | | | | | | | | | | |
| 102 | TTA | CTT | GAT | CAT | TAC | AAA | TAT | CTT | ACT | GCA | TGG | TTG | AAC | TTC | TTA | ATT | 336 |
| 103 | Leu | Leu | Asp | His | Tyr | Lys | Tyr | Leu | Thr | Ala | Trp | Leu | Asn | Phe | Leu | Ile | |
| 104 | | | - | 100 | - | - | - | | 105 | | _ | | | 110 | | | |
| 105 | | | | | | | | | | | | | | | | | |
| 106 | TAC | CAA | AGA | AGA | TCA | TTT | TTT | GTC | GGC | CAT | GAT | TGG | GGT | GCT | TGT | TTG | 384 |
| 107 | Tyr | Gln | Arq | Arg | Ser | Phe | Phe | Val | Gly | His | Asp | Trp | Gly | Ala | Cys | Leu | |
| 108 | - | | 115 | . • | | | | 120 | • | | - | - | 125 | | • | | |
| 109 | | | | | | | | | | | | | | | | | |
| 110 | GCA | TTT | CAT | TAT | AGC | TAT | GAĢ | CAT | CAA | GAT | AAG | ATC | AAA | GCA | ATA | GTT | 432 |
| 111 | Ala | Phe | His | Tyr | Ser | Tyr | Glu | His | Gln | Asp | Lys | Ile | Lys | Ala | Ile | Val | |
| 112 | | 130 | | _ | • | - | 135 | | | - | - | 140 | - | | | | |
| 113 | | | | | | | | | | | | | | | | | |
| 114 | CAC | GCT | GAA | AGT | GTA | GTA | GAT | GTG | ATT | GAA | TCA | TGG | GAT | GAA | TGG | CCT | 480 |
| 115 | His | Ala | Glu | Ser | Val | Val | Asp | Val | Ile | Glu | Ser | Trp | Asp | Glu | Trp | Pro | |
| 116 | 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| 117 | | | | | | | | | | | | | | | | | |
| 118 | GAT | ATT | GAA | GAA | GAT | ATT | GCG | TTG | ATC | AAA | TCT | GAA | GAA | GGA | GAA | AAA | 528 |
| 119 | Asp | Ile | Glu | Glu | Asp | Ile | Ala | Leu | Ile | Lys | Ser | Glu | Glu | Gly | Glu | Lys | |
| 120 | | | | | 165 | | | | | 170 | | | | | 175 | | |
| 121 | | | | | | | | • | | | | | | | | • | |
| 122 | ATG | GTT | TTG | GAG | AAT | AAC | TTC | TTC | GTG | GAA | ACC | ATG | TTG | CCA | TCA | AAA | 576 |
| 123 | Met | Val | Leu | Glu | Asn | Asn | Phe | Phe | Val | Glu | Thr | Met | Leu | Pro | Ser | Lys | |
| 124 | | | | 180 | | | | | 185 | | | | | 190 | | | |
| 125 | | | | | | | | | | | | | | | | | |
| 126 | | | | AAG | | | | | | | | | | | | | 624 |
| 127 | Ile | Met | _ | Lys | Leu | Glu | Pro | | Glu | Phe | Ala | Ala | _ | Leu | Glu | Pro | |
| 128 | | | 195 | | | | | 200 | | | | | 205 | | | | |
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| 130 | | | | AAA | | | | | | | | | | | | | 672 |
| 131 | Pne | | GIU | Lys | GIY | GIU | | Arg | Arg | Pro | Thr | | ser | Trp | Pro | Arg | |
| 132 | | 210 | | | | | 215 | | | | | 220 | | | | | |
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| 137 | 223 | | | | | 230 | • | | | | 233 | | | | | 240 | |
| 138 | AGG | παα | тдт | AAT | ССТ | ייביי | מיים | ССТ | GCA | ΔСΤ | СДТ | СДТ | בידים | CCA | מ מ'מ | ATC | 768 |
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| 141 | | • | | | | | | | | | | | | | | | |
| 142 | TTT | ATT | GAA | TCG | GAT | CCA | GGA | TTC | ттт | TCC | AAT | GCT | АТТ | GTT | GAA | GGC | 816 |
| 143 | | | | Ser | | | | | | | | | | | | | 4 -5 |
| 144 | | | | 260 | | | 1 | | 265 | | | | | 270 | 0 | 0-1 | |
| 145 | | | | | | | | | | | | | | • | | | |
| 146 | GCC | AAG | AAG | TTT | CCT | AAT | ACT | GAA | TTT | GTC | AAA | GTA | AAA | GGT | CTT | CAT | 864 |
| 147 | | | | Phe | | | | | | | | | | | | | |
| 148 | | _ | 275 | | | | | 280 | | | - | | 285 | • | | | |
| 149 | | | | | | | | | | | | | | | | | |
| 150 | | | | GAA | | | | | | | | | | | | | 912 |
| 151 | Phe | Ser | Gln | Glu | Asp | Ala | Pro | Asp | Glu | Met | Gly | Lys | Tyr | Ile | Lys | Ser | |
| 152 | | 290 | | | | | 295 | | | | | 300 | | | | | |

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| 153 154 155 156 157 | TTC Phe 305 | | | | | | | | | | | TTA | CTTT | GGT ' | TTTT | FATTTA | 965 |
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| 186 | Met | Ļys | Leu | Ile | | Leu | Ser | Ile | Ile | | Ala | Tyr | Cys | Val | | Val | |
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| 188 189 | AAC | тсс | CAG | CAT | CCA | ጥርጥ | ССТ | CTA | GAA | CCT | GAA | CCA | CCG | TC מ | λст | ACA | 96 |
| 190 | Asn | | | | | | | | | | | | | | | | 70 |
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| 193 | CCA . | ACA | GTC | CCA | ACA | TCT | TGT | GAA | GCT | AAA | GAA | GGA | GAA | TGT | ATC | GAT | 144 |
| 194 | Pro | Thr | Val | Pro | Thr | Ser | Cys | Glu | Ala | Lys | Glu | Gly | Glu | Cys | Ile | Asp | |
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| 202 | Glu . | | | | | | | | | | | | | | | | _ - • |
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RAW SEQUENCE LISTING PATENT APPLICATION US/09/729,133

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| 206 207 208 | Glu | Ser | Arg | Val | Glu 85 | Ala | Ala | Gly | Tyr | Phe 90 | Arg | Thr | Phe | Tyr | Ala 95 | Lys | |
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| 213 214 215 216 | | | | | | | | | CTC Leu | | | | | | | | 384 |
| 217 218 219 220 | | | | | | | | | ACA Thr | | | | | | | | 432 |
| 221 222 223 224 | | | | | | | | | GCA Ala | | | | | | | | 480 |
| 225 226 227 228 | | | | | | | | | CCG Pro | | | | | | | | 528 |
| 229 230 231 232 | | | | | | | | | TTC Phe 185 | | | | | | | | 576 |
| 233 234 235 236 | | | | | | | | | CTG Leu | | | | | | | | 624 |
| 237 238 239 240 | | | | | | | | | CTG Leu | | | | | | | | 672 |
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| 245 246 247 248 | | | | | | | | | GAG Glu | | | | | | | | 768 |
| 249 250 251 252 | | | | | | | | | TGC Cys 265 | | | | | | | | 816 |
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Wrong application Serial Number

(A) APPLICATION NUMBER: 09/444,762